WHAT IS CLAIMED IS:

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- An ink containing a water, a water-soluble organic solvent, a dye, and a betaine compound.
- 5 2. The ink according to claim 1, further containing a nonionic surfactant.
- 3. The ink according to claim 2, wherein the betaine compound is a compound represented by the following formula
 10 (1):

$$(R^{k})_{p}-N-[L^{m}-(COOM)_{q}]_{r}$$
 (1)

wherein R represents a hydrogen atom, an alkyl group, an aryl group or a heterocyclic group; L represents a divalent linking group; M represents a hydrogen atom, an alkali metal atom, an ammonium group, a protonated organic aminenitrogen-containing heterocyclic group or a quaternary ammonium ion group, provided that when p+r is 4, one of M's is not present; q is an integer of 1 or more, r is an integer of from 1 to 4, k is an integer of from 0 to 4, m is an integer of 1 or more, and p is an integer of from 0 to 4, provided that p+r is 3 or 4; in a case where p+r is 4, the N atom is a protonated ammonium atom; in a case where m is 2 or more, L's may be either the same or different; in a case where q is 2 or more, COOM's may be either the same or different; in a case where r is 2

or more, L^m -(COOM) $_q$'s may be either the same or different; in a case where k is 2 or more, R's may be either the same or different; and in a case where p is 2 or more, R^k 's may be either the same or different.

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4. The ink according to claim 2, wherein the nonionic surfactant is a compound selected from compounds represented by the following formulae (2) to (4):

$$R_{21}O - (CH_2CH_2O)_{m1} + H$$
 (2)

wherein R_{21} represents an alkyl group having from 5 to 40 carbon atoms; and m^1 represents an average number of ethylene oxide moles added which ranges from 2 to 40;

$$H_{22}COO - (CH_2CH_2O)_{m^2} + H$$
 (3)

wherein R_{22} represents an alkyl group having from 5 to 40 carbon atoms; and m^2 represents an average number of ethylene oxide moles added which ranges from 2 to 40; and

$$\begin{array}{c}
R_{32} \\
| \\
R_{31} - C - C \equiv C - X \\
| \\
O - \left(CH_2CH_2O\right)_{m3} - R_{33}
\end{array}$$
(4)

25 wherein R₃₁ and R₃₂ each independently represent an alkyl group

having from 1 to 18 carbon atoms; R_{33} represents a hydrogen atom, an alkyl group having from 1 to 6 carbon atoms or a phenyl group; and X represents a hydrogen atom or

$$\begin{array}{c|c}
R_{34} \\
-C - R_{35} \\
0 - (CH_2CH_2O)_{m4} - R_{36}
\end{array}$$

wherein R_{34} and R_{35} each independently represent an alkyl group having from 1 to 18 carbon atoms; R_{36} represents a hydrogen atom, an alkyl group having from 1 to 6 carbon atoms or a phenyl group; and m^3 and m^4 each independently represent an average number of ethylene oxide moles added provided that m^3+m^4 is from 0 to 100;

in a case where m^3 is 0, R_{33} represents a hydrogen atom; in a case where m^4 is 0, R_{36} represents a hydrogen atom; and in a case where X is a hydrogen atom, m^3 is from 1 to 100.

5. The ink according to claim 1, wherein the betaine compound is a compound which has both of a cationic site and an anionic site in its molecule.

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6. The ink according to claim 1, wherein the cationic site is selected from the group consisting of an amine form nitrogen atom, a nitrogen atom in an aromatic heterocycle, a boron atom having 4 carbon-bonds, and a phosphorus atom, and the anionic site is selected from the group consisting of a

hydroxyl group, a thio group, a sulfonamido group, a sulfo group, a carboxyl group, an imido group, a phosphate group, and a phosphonate group.

- 7. The ink according to claim 1, wherein the dye has an oxidation potential nobler than 1.0 V (vs. SCE).
 - 8. The ink according to claim 1, wherein the dye has at least two heterocyclic groups.

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- 9. The ink according to claim 8, wherein the heterocyclic group is a 5-membered heterocyclic group or a 6-membered heterocyclic group in which hetero atom is at least one of N, O and S.
- 10. The ink according to claim 8, wherein the heterocyclic group contains at least one of pyridine, thiophene, thiazole, benzothiazole, benzoxazole and furan rings.
- 20 11. The ink according to claim 1, wherein the dye is a phthalocyanine dye containing at least one of $-SO_{-}$, $-SO_{2}$, $-CO_{-}$ and $-CO_{2}$.
- 12. An ink set containing at least one of the ink according25 to claims 2.

13. An inkjet recording method wherein an image is recorded with an inkjet printer by using at least one of the ink according to claim 2 and the ink set according to claim 12.

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- 14. The ink according to cliam 1, further containing at least one another betaine compound.
- 15. An ink set containing at least one of the ink according to claims 14.
- 16. An inkjet recording method wherein an image is recorded with an inkjet printer by using at least one of the ink according to claim 14 and the ink set according to claim 15.